



**CATALOGUE #:** 4D30

**PRODUCT NAME:** Monoclonal mouse anti-D-dimer

**MAbs:** DD1, DD2, DD3, DD4, DD5, DD6, DD22, DD41, DD44, DD46 **New MAb: DD93**

Hybridoma clones have been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with homogenized fibrin clot, D-dimer or high molecular weight fibrin degradation products.

**Specificity:** All MAbs recognized D-dimer and high molecular weight fibrin degradation products with different specificities. MAb DD93 recognizing a cross-linked region of D-Dimer.

DD1 DD2 DD3 DD22 DD41 DD44 DD46 DD93	No cross-reaction with fibrinogen and D-monomer
DD4 DD5 DD6	Cross-reaction with fibrinogen; Low cross-reaction with D-monomer

**MAb isotypes:** **IgG1** for MAb DD93  
**IgG2a** for MAbs DD1, DD6, DD22, DD41, and DD46  
**IgG2b** for MAbs DD2, DD3, DD4, DD5 and DD44

**Applications:** D-dimer and high molecular weight fibrin degradation products immunoassay.

All antibodies recognize D-dimer in ELISA. All MAbs except DD93 recognize D-dimer in Western blotting under non-reducing conditions. MAbs DD22, DD41, DD44, DD46 interact with  $\beta$ -chain of D-dimer in Western blotting under reducing conditions.

Recommended pairs to be used in a one-step sandwich immunoassay for D-dimer detection in human plasma (coating – conjugate): DD2 – DD41 and DD2 – DD44.

Recommended pairs to be used in two-step sandwich immunoassay for D-dimer detection in human plasma (coating – detection)\*: DD1 – DD6, DD1 – DD4, DD1 – DD5, DD3 – DD4, DD3 – DD6, **DD2 – DD6**, DD2 – DD4 and DD2 – DD5

*\*To be analyzed in a two-step sandwich immunoassay, plasma must be diluted with 10 mM Tris-HCl buffer, pH 7.5, containing 1 M NaCl and 0.1 % Tween 20. To avoid non-specific binding the final NaCl concentration in plasma samples must be 0.5 M or more.*

**Purification:** Chromatography on protein A Sepharose

**Presentation:** PBS, pH 7.4, 0.1 % sodium azide (NaN<sub>3</sub>)

**Storage:** + 4 °C

**Material safety note:** This product is sold as an antibody preparation **for research use only**. Standard Laboratory Practices should be followed when handling this material.

Contains sodium azide (0.1 %) as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.

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